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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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-
- Download the complete N&O newsletter from the N&O web site -
- at: http://home.luna.nl/~ary/ -
-
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- http://www.spynumbers.com/numbersDB/ -
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-::: N&O #48 April 2002 :::-

* VOICE STATIONS *

::: E03 - LINCOLNSHIRE POACHER

Al compiled the IDs used by the Poacher in the first half of April:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	39054	39054	39054	39054	39054	39054	39054	1200
1300	76431	76431	76431	76431	76431	76431	76431	1300
1400	26845	64394	81926	85492	39054	85379	90759	1400
1500	90759	26845	64394	81926	85492	39054	50176	1500
1600	50176	90759	26845	64394	81926	85492	85379	1600
1700	85379	50176	90759	26845	64394	81926	39054	1700
1800	39054	85379	50176	90759	26845	64394	85492	1800
1900	85492	76431	85379	76431	90759	26845	76431	1900
2000	76431	39054	76431	50176	76431	90759	81926	2000
2100	81926	85492	39054	85379	50176	76431	64394	2100
2200	64394	81926	85492	39054	85379	50176	26845	2200

...and in the second half of the month:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	60946	60946	60946	60946	60946	60946	60946	1200
1300	48090	48090	48090	48090	48090	48090	48090	1300
1400	10103	08969	76360	96811	60946	94904	09954	1400
1500	09954	10103	08969	76360	96811	60946	32994	1500
1600	32994	09954	10103	08969	76360	96811	94904	1600
1700	94904	32994	09954	10103	08969	76360	60946	1700
1800	60946	94904	32994	09954	10103	08969	96811	1800
1900	96811	48090	94904	48090	09954	10103	48090	1900
2000	48090	60946	48090	32994	48090	09954	76360	2000
2100	76360	96811	60946	94904	32994	48090	08969	2100
2200	08969	76360	96811	60946	94904	32994	10103	2200

Al also noticed a couple of anomalies. He writes: "There was an oddity recently. Between 00 and 10 minutes past the hour the LP transmits the LP-tune, 10x the ID, the LP-tune, and so on. On Friday, March 29, 2002 1600z the ID was 63871 (5x) and 63817 (5x). (63871 was first heard 25.03. replacing 51028)."

Thanks for the note, Al.

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::: E10 - ISRAELI INTELLIGENCE

On Sunday 14 April I copied E10 with two strings:
5170//8025 kHz with VLBTMX1504 and 6930 kHz with MIWTMX1504.

Tomonori reports CI025Z23 on 5339 and 8127 kHz on 9 and 10 March.

YHF1 was heard on 11 April by AF.

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::: RUSSIAN STATIONS

7035: i423i, date and time unknown
7070: Russian male i731i, date and time unknown

-0-0-0-0-0-0-0-0-0-0-

* MORSE STATIONS *

Two new ENIGMA designators this month: M13d and M87.

M87 is described as:
Tue/Thu,9254kHz,22.00z,erratic hand,long zero,10 min TX
529 x n 000 (r3), last gp 529 x n 000 000

Note, on latest TX (28Mar) n= 5/19/9

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::: M13d

A new M13 variant was first noticed on 2 March and has now ENIGMA designator M13d.

Mark logged the station recently on 5876 kHz at 0239 UTC with:
303x12 BT 264 86 BT (into 5f tfc) 000

CR gives a description in the ENIGMA newsletter: "First noted during March 02, probable start at 02.30z, very slow (5 gps min), very long messages up to 2+hrs. The freq is poor in Europe owing to strong BC stations. Stays on one freq (5876kHz) unlike other M13's. Msg No (264) indicates that it's been around for a long time!! Another interesting item is that groups 1 & 2 are repeated as last 2 groups of message. Heard as part TX's on:- Mar 2nd, 3rd, 24th, with complete TX on April 4th."

Format:

"303 x 12, BT, 264, 86, BT, 86 x 5f gps, ending BT 000" (sent as ttt)

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::: M23

Ralph and Mark logged a number of M23 transmissions.

6733 kHz, 0400 UTC, 555
7960 kHz, 0200 UTC, 310
10220 kHz, 0330 UTC, 000
12220 kHz, 0430 UTC, 310
16940 kHz, 1430 UTC, 310 //17460 kHz
17460 kHz, 1430 UTC, 310 //16940 kHz

<<<<<>>>>>

::: M82

A sample from Igor, logged on 3442 kHz at 1135 UTC, 26/4.

abv qtc nr 6t1 41 43 t426 2t3t 62t 419 =
91t27 7t656 57t27 35273 54873 25739 23766 27748 5t882 27132 r
t9431 95566 73566 77789 t25t2 466t9 34979 99733 99169 94434 r
97421 52995 t3323 8164t t5734 4t195 6t714 84391 5647t t92t2 r
28176 7223t 58198 687t2 6783t 35287 68775 73569 64751 81231 r
5563t 49298 9715t sk sk

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::: MX - CHANNEL MARKERS & CLUSTER BEACONS

Beacon and channel marker activity was logged on a number of frequencies this month:

3291.0 - P, Kaliningrad
3344.9 - L, St. Petersburg
3658.0 - V, Khiva

3699.5 - P, Kaliningrad
3837.0 - P, Kaliningrad
5154.0 - M, Magadan
5465.0 - R, Izhevsk
7038.6 - D, Odessa
7038.9 - S, Arkhangelsk
7039.0 - C, Moscow
7039.0 - K, Petropavlovsk Kamchatskiy
7039.2 - F, Vladivostok
8494.9 - S, Arkhangelsk
8495.0 - C, Moscow
8495.2 - F, Vladivostok
10871.6 - D, Odessa
10871.9 - S, Arkhangelsk
10872.0 - C, Moscow
10872.0 - M, Magadan
13527.9 - S, Arkhangelsk
13528.0 - C, Moscow
13528.2 - F, Vladivostok
16332.0 - C, Moscow
16932.0 - P, Kaliningrad

Last month I mentioned Trond's log of a voice message on "R". The message has been translated and it says:

"Ya - Plavets-41.
Reskript: 22, 80, 39, 90.
Reskript: 22, 80, 39, 90.
Moskovskoye vremia - nol' chasov.
Priyom".

Translation:

"I am Plavets-41 [=Swimmer-41].
Rescript: 22, 80, 39, 90.
Rescript: 22, 80, 39, 90.
Moscow time - 0 hours.
Reception" [=Over].

Thanks to "D", Rimantas, Dmitri and Igor for the translation. Callsign "Plavets 41" has been used for over 3 years in a dozen messages. The sound file is on the N&O website if you are interested.

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::: UNID "761"

Heard by Igor on 6750 kHz (1402 UTC, 10-04-2002) and 6760 kHz (1405

UTC, 31-03-2002). The station uses the following format:

761 761 761 333 333 (repeated)

= = 076 076 51 51 = =

66dna 4n7d3 tdn65 47t4d 7ttt3 4347a n3a43 75a6t 5t4aa nuu6t
d5dut 34tu4 54d6a 7d645 65tdd 565td nudan 3an6u d4tnd 744dt
6uta3 635u4 u3du6 65544 63u5d n4n5u 3a544 ua4ad 53dtd 5ut64
5a5td 33u45 35ua3 dd664 dn555 nda5n dd3dn 7663t 3un43 udt5d
da55a a3n46 457nu 7dda4 n3ttt 7d57t 64aa7 u347t 44nnt udan4
7aad7

= = 000 t t t

<<<<<>>>>>

::: UNID "987"

Another one from Igor: 18643 kHz, 0130 UTC, 30-3-2002

987 987 987 987 987 987 000
987 987 987 987 987 987 987 987 000
987 987 987 987 987 987 987 987 987 987 987 000
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::: CHINESE MILITARY STATIONS

"V CP17 CP17 CP17 DE L9CC L9CC" appeared on 3552, 7041, 7047, 7058 kHz.

"V LA5S LA5S LA5S DE NH8T NH8T" showed up on 4874 kHz.

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::: RUSSIAN MILITARY STATIONS

18.1 and 21.1 kHz RDL - Russian military HQ Moscow. Messages logged by Trond in Norway.

rdl rdl

11111 71241 572t4 42897 42897 574t3 83567 4334t 22549 t1315 154t5
854t3 8t447 6t326 7968t 22449 74564 52594 68965 t17t1 113t7 53742
77866 11717 58812 75644 99762 36152 54692 1415t t155t 37222 29tt8
8tt31 22678 59t1t 89t71 14836 t276t 97t86 44715 77341 33283 5tt83

14t5t 47368 98467 79tt5 91112 1t344 t5261 61376 14836 759t6 589t8
263t8 59253 67335 2642t t3495 59164 27151 49t67 t6812 37671 228t5
77598 15697 2t813 21571 16t7t k

rdl rdl 99585 29878 k

xxx xxx rdl rdl 83183 39419 kor("ch")ewalka 7977 1524 k

xxx xxx rdl rdl 92644 57791 gonorinh 2278 3197 k

u u u xxx xxx rdl rdl 58748 41828 baletki 0927 8689 k

xxx xxx rdl rdl 59427 50542 mirol_bie 6124 8035 k

rdl rdl rdl 28750 90646 k

uuu uuu rdl rdl 06021 85336 k

Other Russian nets as logged by John and various others:

7074 kHz, MW3D DE 2SLC
10410 kHz, LT9J traffic to BRPT
13004 kHz, 7WKL traffic to T3Q0, FNE5 who answered on 13844 kHz.
13852 kHz, WPAK working with: GH1Y, A57C, E60K, SDI1, SPG6
interrupted by strategic flash message:
XXX XXX WLHN 36055 88401 DARUN 9041 1483
13852 kHz, SZBG working with: WPSN, 70M9, ZPML, TWWL, VHP3,
Q8WM, Y9NZ, HFBN, ZCAP
13852 kHz, ALLM working with: 9BLI, 4ASZ, NEH9, 2YMU, HALS,
CDVZ, I1NP, TYIQ, IRWU, 5HCD

-0-0-0-0-0-0-0-0-0-0-

* OTHER MODES *

::: FAPSI [M42/X06]

The "Mazielka" selcal was heard on a number of frequencies during the past few months: 7529, 7819, 8097, 9045, 9080, 9105, 9215, 9235, 14501, 14871, 14934, 16117 and 16223 kHz. Some of them were directly followed by M42 transmissions.

M42's transmissions from Cuba seem to have vanished since the Russians pulled out of Cuba. Reports are very welcome, folks!

M42 logs this month:

Freq. link remarks

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-----
 8081  80061  From VNB to WQL.
10126                Last message so no ID. QSYs correspondent to 12140 QBN,
                        then 13950, then 14630. Call could be KRN = Link 00178.
10179                No id noted.
10247  00107
10558                No id noted.
10844  60179
12198                No id noted.
13470  80061  From VNB to WQL.
13505                No link id noted. Possibly 40034 from RLX to UXW.
14588                No id noted.
14638  30011
16130                No id noted.
18210                No id noted.
22956                No id noted.

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::: DIPLO STATIONS

Apart from FAPSI (Russian diplo/intel comms) we haven't covered any other diplo stations in this column. Several people have asked for info about other countries.

Please note that Day Watson covers these stations in his "Digital Review" column in the WUN newsletter. Copies of all newsletters can be found on the WUN website at <http://www.wunclub.com>

Before Day took over, I wrote the Digital Review. A somewhat dated compilation of the diplo articles from my days can be found at <http://www.wunclub.com/archive/files/DiploWD6.zip>

Another very good source is Mike Chace's website at <http://www.chace-ortiz.org/umc/mfaindex.html>

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::: JAMMERS

7 MHz was crowded with jammers, as usual. The most popular frequencies were: 7000, 7010, 7020, 7030, 7031, 7037, 7050, 7060, 7070, 7080, 7086 and 7088 kHz.

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::: XPH

XPH used schedule 018 for the morning transmissions in April.
0600 UTC - 11083 kHz, 0620 UTC - 12183 kHz, 0640 UTC - 13883 kHz.

Evening schedule: 194.
2000 UTC - 12180 kHz, 2020 UTC - 10970 kHz, 2040 UTC - 9475 kHz.

The irregular 10/30/50 transmissions were copied with schedule 845.
2010 UTC - 14890 kHz, 2030 UTC - 13420 kHz, 2050 UTC - 11580 kHz.

Apparently they abandoned the predictable behaviour and stopped using the 2000 and 2001 schedules. Hence no predictions for May.

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::: XSL - SLOT MACHINE

The still unid "Slot Machine" stations can be heard on 4233, 4292, 6419, 6445, 6466, 8555, 8589 and 8703.5 kHz.

<<<<<>>>>>

::: XSW - SQUEAKY WHEEL

The Squeaky Wheel channel marker is good audible in Holland during the European evenings and nights at 3828 kHz.

<<<<<>>>>>

::: XT / XT2

"Pip 1" is alive and kicking on 3756 kHz, while "Pip 2" hasn't been reported since February. Reports are very welcome.

<<<<<>>>>>

::: DTMF

I copied an unid station on 14 April at 1949 UTC on 8237 kHz, sending DTMF tones. It sent "0123" over and over for ca 15 minutes and then disappeared. Very loud signal here in Holland.

A MP3 file is available from the N&O website (8237.zip)

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::: OVER-THE-HORIZON-RADAR (OTHR)

The OTHR from Cyprus is frequently heard. It was reported on a number

of frequencies between 18070 and 29350 kHz.

I also saw reports re an unid OTHR on 21285 and 24950 kHz.

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::: HAARP

Tom Severt received a QSL card for last month's HAARP transmissions.
Congrats, Tom!

-0-0-0-0-0-0-0-0-0-0-

* INTELLIGENCE NEWS *

::: RUSSIA'S RESPONSE TO RADIO LIBERTY.

"On the heels of Radio Liberty's April launch of its controversial Chechen Service, Russia has announced its own plans for a Chechen-language agency to broadcast into the breakaway republic. VOA News reports that the new service, to be run by Russia's Interior Ministry, is intended to counter the effects of the U.S.-funded Radio Liberty service. In addition, Sergei Stepashin, head of Russia's Audit Chamber, has publicly aired the possibility of revoking Radio Liberty's license to broadcast in Russia."

<source: Russia Reform Monitor / American Foreign Policy Council>

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::: INTERESTING ARTICLES ON THE WEB

JMM found a whole lotta articles lately. Here a summary:

Numerous articles about a U.S. spy ring foiled by Russia

<http://uk.news.yahoo.com/020410/80/cwbo7.html>

<http://news.independent.co.uk/world/russia/story.jsp?story=283659>

<http://www.guardian.co.uk/worldlatest/story/0,1280,-1651368,00.html>

<http://www.russiajournal.com/news/index.shtml?nd=12675#n12675>

And a possible new insider

<http://www.washingtonpost.com/wp-dyn/articles/A22524-2002Apr9.html>

But U.S. business is still successful

http://www.philly.com/mld/philly/news/breaking_news/3035946.htm

As for the U.K.:

<http://www.theage.com.au/breaking/2002/04/11/FFXGHOGIVZC.html>

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

2812	TA7H	CIS mil. Callup for QSA's: ZTLM JY09 QT7E VY7S BUGL CW 23-04-2002 2112 (RGA)
3150	E10	PCD USB 24-03-2002 Sun 1831 (TI)
3291	MX	Channel marker "P", Kaliningrad CW 09-04-2002 1819 (TJ)
3344	MX	Channel marker "L", St Petersburg CW 13-04-2002 2021 (TJ)
3344,9	MX	Channel marker "L", St Petersburg CW 09-04-2002 1829 (TJ)
3415	E10	USB 19-03-2002 Tue 1602 (TI)
3415	E10	ART//5435 USB 24-03-2002 Sun 1802 (TI)
3415	E10	ART//5437 USB 24-03-2002 Sun 1831 (TI)
3415	E10	ART USB 23-04-2002 Tue 1602 (TI)
3442	M82	N.Korean mil 5FGs CW 26-04-2002 1135 (IB)
3658	MX	Channel marker "V", Khiva CW 09-04-2002 1758 (TJ)
3699,5	MX	Channel marker "P", Kaliningrad CW 09-04-2002 1821 (TJ)
3756	S30	Pip CW 09-04-2002 1848 (TJ)
3828	XSW	Squeaky Wheel AM 10-04-2002 2001 (AB)
3828	XSW	Squeaky Wheel AM 13-04-2002 2110 (AB)
3837	MX	Channel marker "P", Kaliningrad CW 09-04-2002 1825 (TJ)
3857	MX	Channel marker "P", Kaliningrad CW 23-04-2002 2157 (TJ)
3861	M51	NR 51 A 25 00:01:19 2002 = CW 23-04-2002 2202 (RGA)
4015	E10	VLB2//6370 USB 17-03-2002 Sun 1817 (TI)
4030	M13	id 831 CW 13-04-2002 2100 (AB)
4030	M13	331 CW 02-04-2014 Sun 2100 (HFD)
4031	M13	id 831 CW 14-04-2002 2100 (AB)
4070		in progress. 5FGs. Each group twice. Ends 540 540 00000 CW 24-04-2002 1918 (RGA)
4073	M18	CW 04-03-2002 Mon 2112 (TI)
4165	E10	MIW2//6930 USB 17-03-2002 Sun 1817 (TI)
4165	E10	MIW2//6930 USB 24-03-2002 Sun 1816 (TI)
4270	E10	USB 19-03-2002 Tue 1603 (TI)
4360	E10	USB 17-03-2002 Sun 1748 (TI)
4454.0	S21	"454 123 31 56729 ... 000" AM 30-04-2002 Tue 1842 (SE)
4461	E10	FTJ2 USB 17-03-2002 Sun 1802 (TI)
4461	E10	FTJ2 USB 24-03-2002 Sun 1803 (TI)
4461	E10	FTJ2 USB 24-03-2002 Sun 1832 (TI)
4463	E10	USB 15-03-2002 Fri 1901 (TI)
4558	M21	CW 12-03-2002 Tue 1414 (TI)

4558 M21 CW 16-03-2002 Sat 0840 (TI)
4560 E10 YHF USB 17-03-2002 Sun 1632 (TI)
4560 E10 YHF USB 17-03-2002 Sun 1732 (TI)
4625 S28 AM 26-02-2002 Tue 1515 (TI)
4625 S28 AM 05-03-2002 Tue 1453 (TI)
4625 S28 AM 06-03-2002 Wed 1452 (TI)
4625 S28 AM 15-03-2002 Fri 1857 (TI)
4625 S28 AM 17-03-2002 Sun 1653 (TI)
4625 S28 AM 06-04-2002 Sat 1553 (TI)
4625 S28 Buzzer CW 09-04-2002 1846 (TJ)
4780 E10 KPA2 USB 26-02-2002 Tue 1517 (TI)
4780 E10 SYN2//8641 USB 17-03-2002 Sun 1647 (TI)
4780 E10 SYN2 USB 17-03-2002 Sun 1749 (TI)
4780 E10 SYN2//7445 USB 15-04-2002 Mon 1648 (TI)
4780.0 E10 SYN2 USB 20-04-2002 Sat 0143 (JSI)
4854.0 S21 "454 123 31 56729 ... 000" AM 30-04-2002 Tue 1842 (SE)
4880 E10 ULX2 USB 15-03-2002 Fri 1902 (TI)
4880 E10 ULX2//6270 USB 15-03-2002 Fri 1931 (TI)
4880 E10 USB 17-03-2002 Sun 1632 (TI)
4880 E10 ULX2//6270 USB 17-03-2002 Sun 1702 (TI)
4880 E10 ULX2 USB 17-03-2002 Sun 1732 (TI)
4880 E10 ULX//6270 USB 19-03-2002 Tue 1632 (TI)
4880 E10 ULX//6270 USB 23-03-2002 Sat 1632 (TI)
4880 E10 ULX//6270 USB 24-03-2002 Sun 1833 (TI)
4880 E10 Israeli Intel. ULX2 AM 15-04-2002 2100 (AB)
4880.0 E10 In progress USB 08-04-2002 Mon 0038 (JSI)
4881 E10 ULX3 USB 17-03-2002 Sun 1802 (TI)
4881 E10 ULX USB 24-03-2002 Sun 1803 (TI)
5091 E10 USB 17-03-2002 Sun 1648 (TI)
5091 E10 JSR USB 17-03-2002 Sun 1703 (TI)
5091 E10 USB 24-03-2002 Sun 1817 (TI)
5091 E10 Israeli Intel. JSR AM 15-04-2002 2100 (AB)
5153 M51 NR 70 A 24 21:30:12 2000 = CW 24-04-2002 1930 (RGA)
5154 MXC M//10872 CW 12-03-2002 Tue 1421 (TI)
5159 M22 (4XZ) CW 26-02-2002 Tue 2142 (TI)
5170 E10 VLB2//6370 USB 15-03-2002 Fri 1947 (TI)
5170 E10 VLB2 USB 17-03-2002 Sun 1502 (TI)
5170 E10 VLB2//8025 USB 17-03-2002 Sun 1617 (TI)
5170 E10 VLB2//8025 USB 17-03-2002 Sun 1634 (TI)
5170 E10 VLB2//6370 USB 17-03-2002 Sun 1824 (TI)
5170 E10 VLB2//6370 USB 31-03-2002 Sun 1647 (TI)
5170 E10 VLB2//8025 6370 USB 06-04-2002 Sat 1548 (TI)
5170 E10 Israeli Intel. VLB2MX1504 AM 14-04-2002 1916 (AB)
5170 E10 Israeli Intel. VLB2 AM 14-04-2002 2045 (AB)
5170 E10 VLB2//8025 6370 USB 15-04-2002 Mon 1648 (TI)
5170.0 E10 vlbt0x10 AM 08-04-2002 Mon 2015 (ASC)
5170.0 E10 VLB2 USB 20-04-2002 Sat 0145 (JSI)
5170.0 E10 In progress. "VLB2" Heard via javaradio in Folkestone,

UK USB 22-04-2002 Mon 2245 (JAY)
 5170.0 E10 VLB2 Heard via Javaradio in Edinburgh, Scotland USB
 22-04-2002 Mon 2330 (JAY)
 5210.0 G04 She is back! AM 04-04-2002 Thu 2000 (AF)
 5210.0 G04 in progress USB 04-04-2002 Thu 2010 (ASC)
 5226 M13 378 CW 02-04-2008 Mon 2100 (HFD)
 5310.0 G04 USB 04-04-2002 Thu 2030 (ASC)
 5310.0 G04 AM 04-04-2002 Thu 2030 (AF)
 5339 E10 CI02Z23/8127 USB 10-03-2002 Sun 1502 (TI)
 5339 E10 CI02//6912 USB 15-03-2002 Fri 1948 (TI)
 5339 E10 CI02//8127 USB 17-03-2002 Sun 1648 (TI)
 5339 E10 CI02//6912 USB 17-03-2002 Sun 1749 (TI)
 5339 E10 CI02//6912 USB 31-03-2002 Sun 1648 (TI)
 5339 E10 CI02//6912 8127 USB 06-04-2002 Sat 1549 (TI)
 5339 E10 CI02//8127 USB 14-04-2002 Sun 1548 (TI)
 5339 E10 CI02//6912 8127 USB 15-04-2002 Mon 1649 (TI)
 5419.0 M08a ID ----- (in progress) CW 20-04-2002 Sat
 5435 E10 USB 26-02-2002 Tue 1517 (TI)
 5435 E10 ART//6986 USB 06-03-2002 Wed 1502 (TI)
 5435 E10 ART USB 09-03-2002 Sat 1602 (TI)
 5435 E10 USB 11-03-2002 Mon 1602 (TI)
 5435 E10 ART2//6986 USB 15-03-2002 Fri 1902 (TI)
 5435 E10 ART USB 15-03-2002 Fri 1932 (TI)
 5435 E10 ART USB 17-03-2002 Sun 1633 (TI)
 5435 E10 ART USB 17-03-2002 Sun 1703 (TI)
 5435 E10 USB 17-03-2002 Sun 1733 (TI)
 5435 E10 ART USB 17-03-2002 Sun 1803 (TI)
 5435 E10 ART USB 19-03-2002 Tue 1604 (TI)
 5435 E10 ART USB 19-03-2002 Tue 1632 (TI)
 5435 E10 ART USB 23-03-2002 Sat 1602 (TI)
 5435 E10 ART//3415 USB 24-03-2002 Sun 1804 (TI)
 5435 E10 ART USB 31-03-2002 Sun 1602 (TI)
 5435 E10 ART USB 31-03-2002 Sun 1632 (TI)
 5435 E10 ART USB 31-03-2002 Sun 1702 (TI)
 5435 E10 USB 06-04-2002 Sat 1604 (TI)
 5435 E10 Israeli Intel. ART AM 09-04-2002 2302 (TJ)
 5435 E10 USB 15-04-2002 Mon 1603 (TI)
 5435 E10 ART USB 15-04-2002 Mon 1632 (TI)
 5435 E10 ART USB 21-04-2002 Sun 1632 (TI)
 5435 E10 ART USB 23-04-2002 Tue 1632 (TI)
 5437 E10 ART//3415 USB 24-03-2002 Sun 1833 (TI)
 5437.0 E10 Good Signal. USB 08-04-2002 Mon 0040 (JSI)
 5465 MX Channel marker "R", Izhevsk CW 01-04-2002 1227 (TJ)
 5465 MX Channel marker "R" CW 15-04-2002 Mon 1613 (TI)
 5465 MXC R CW 17-03-2002 Sun 1645 (TI)
 5619 Unid. 5FGs with AA (barred) separator between each
 group. Ends "K US (barred) QSM BT" CW 24-04-2002 1940
 5715 V24 AM 19-03-2002 Tue 1604 (TI)

5715 V24 AM 06-04-2002 Sat 1611 (TI)
5758.0 M08a ID ----- (in progress) CW 21-04-2002 Sun
5762.0 V02a ID 59720 ----- YL/SS AM 20-04-2002 Sat 0200 (MS)
5784.0 M13 CW 18-04-2002 Thu 0600 (ANEUR)
5820 E10 USB 26-02-2002 Tue 1517 (TI)
5820 E10 //7918 USB 10-03-2002 Sun 1508 (TI)
5820 E10 YHF USB 10-03-2002 Sun 1531 (TI)
5820 E10 YHF2 USB 15-03-2002 Fri 1902 (TI)
5820 E10 YHF2 USB 15-03-2002 Fri 1932 (TI)
5820 E10 YHF USB 17-03-2002 Sun 1503 (TI)
5820 E10 YHF2 USB 17-03-2002 Sun 1703 (TI)
5820 E10 YHF//10648 USB 17-03-2002 Sun 1804 (TI)
5820 E10 YHF USB 19-03-2002 Tue 1633 (TI)
5820 E10 YHF USB 23-03-2002 Sat 1632 (TI)
5820 E10 //7918 10648 USB 24-03-2002 Sun 1805 (TI)
5820 E10 YHF USB 31-03-2002 Sun 1632 (TI)
5820 E10 Israeli Intel. YHF1 AM 11-04-2002 2200 (AF)
5820 E10 USB 15-04-2002 Mon 1548 (TI)
5820 E10 YHF USB 15-04-2002 Mon 1633 (TI)
5820 E10 YHF USB 23-04-2002 Tue 1632 (TI)
5875 XPH msg AM 26-02-2002 Tue 2150 (TI)
5876.0 M13d (in progress w/5f tfc) 303x12 BT 264 86 BT (into 5f
tfc) 000 CW 07-04-2002 Sun 0239 (MS)
6270 E10 ULX2 USB 05-03-2002 Tue 1432 (TI)
6270 E10 ULX USB 06-03-2002 Wed 1502 (TI)
6270 E10 ULX2 USB 10-03-2002 Sun 1532 (TI)
6270 E10 ULX2//4880 USB 15-03-2002 Fri 1933 (TI)
6270 E10 ULX2//4880 USB 17-03-2002 Sun 1704 (TI)
6270 E10 ULX//4880 USB 19-03-2002 Tue 1633 (TI)
6270 E10 ULX//4880 USB 23-03-2002 Sat 1633 (TI)
6270 E10 ULX//4880 USB 24-03-2002 Sun 1834 (TI)
6270 E10 ULX USB 31-03-2002 Sun 1633 (TI)
6270 E10 ULX2 USB 02-04-2002 Tue 1531 (TI)
6270 E10 USB 06-04-2002 Sat 1503 (TI)
6270 E10 USB 15-04-2002 Mon 1633 (TI)
6270.0 E10 ULX 21 DZCMZ //4880 Heard via Javaradio in Folkestone,
UK AM 22-04-2002 Mon 2300 (JAY)
6370 E10 VLB2//5170 USB 15-03-2002 Fri 1948 (TI)
6370 E10 VLB2//5170 USB 17-03-2002 Sun 1634 (TI)
6370 E10 VLB2//5170 USB 17-03-2002 Sun 1824 (TI)
6370 E10 VLB2//8025 USB 31-03-2002 Sun 1548 (TI)
6370 E10 VLB2//5170 USB 31-03-2002 Sun 1648 (TI)
6370 E10 VLB2//8025 5170 USB 06-04-2002 Sat 1549 (TI)
6370 E10 VLB2//8025 USB 14-04-2002 Sun 1549 (TI)
6370 E10 VLB2//8025 USB 15-04-2002 Mon 1549 (TI)
6370 E10 VLB2//8025 5170 USB 15-04-2002 Mon 1649 (TI)
6370.0 E10 MIW2 Heavy QRM. Heard via javaradio in Folkestone, UK
USB 22-04-2002 Mon 2315 (JAY)

6379 M22 (4XZ) CW 15-03-2002 Fri 1918 (TI)
6417 XSL USB 15-04-2002 Mon 1625 (TI)
6445 XSL USB 15-04-2002 Mon 1628 (TI)
6498 E10 PCD2 USB 09-03-2002 Sat 1603 (TI)
6498 E10 PCD2 USB 11-03-2002 Mon 1603 (TI)
6498 E10 PCD USB 15-03-2002 Fri 1903 (TI)
6498 E10 PCD USB 17-03-2002 Sun 1503 (TI)
6498 E10 USB 17-03-2002 Sun 1635 (TI)
6498 E10 PCD//8805 USB 17-03-2002 Sun 1734 (TI)
6498 E10 PCD USB 19-03-2002 Tue 1633 (TI)
6498 E10 PCD2 USB 23-03-2002 Sat 1603 (TI)
6498 E10 PCD USB 23-03-2002 Sat 1633 (TI)
6498 E10 USB 31-03-2002 Sun 1533 (TI)
6498 E10 USB 31-03-2002 Sun 1649 (TI)
6498 E10 PCD USB 02-04-2002 Tue 1532 (TI)
6498 E10 USB 06-04-2002 Sat 1533 (TI)
6498 E10 USB 14-04-2002 Sun 1550 (TI)
6498 E10 USB 15-04-2002 Mon 1633 (TI)
6498 E10 PCD USB 21-04-2002 Sun 1532 (TI)
6498 E10 USB 21-04-2002 Sun 1633 (TI)
6498 E10 USB 23-04-2002 Tue 1633 (TI)
6498.0 E10 In progress USB 08-04-2002 Mon 0042 (JSI)
6647 V08 AM 02-03-2002 Sat 1900 (TI)
6750 761 Unid. 761 761 761 333 333 (repeated) = = 076 076 51 51
= = 5FGs CW 10-04-2002 1402 (IB)
6766 XPH null AM 26-02-2002 Tue 2120 (TI)
6840 E10 EZI//11565 USB 15-03-2002 Fri 1903 (TI)
6840 XPH msg AM 12-03-2002 Tue 2140 (TI)
6840.0 E10 EZI Goup 9? Sounded like it was being jammed. USB
02-04-2002 Tue 0133 (JSI)
6840.0 E10 EZI. 2 messages, Group 86 USB 14-04-2002 Sun 0233
6840.0 E10 In progress USB 20-04-2002 Sat 0149 (JSI)
6842.0 E10 EZI Group 85. At 0204, same jamming sound USB
02-04-2002 Tue 0200 (JSI)
6885 V09 USB 15-03-2002 Fri 1500 (TI)
6912 E10 KPA2 USB 26-02-2002 Tue 1518 (TI)
6912 E10 CI02 USB 12-03-2002 Tue 1448 (TI)
6912 E10 CI02//5339 USB 15-03-2002 Fri 1949 (TI)
6912 E10 CI02//5339 USB 17-03-2002 Sun 1751 (TI)
6912 E10 CI02 USB 31-03-2002 Sun 1549 (TI)
6912 E10 CI02//5339 USB 31-03-2002 Sun 1649 (TI)
6912 E10 CI02//8127 5339 USB 06-04-2002 Sat 1546 (TI)
6912 E10 CI02//8127 5339 USB 15-04-2002 Mon 1645 (TI)
6930 E10 MIW2 USB 15-03-2002 Fri 1919 (TI)
6930 E10 MIW2 USB 17-03-2002 Sun 1618 (TI)
6930 E10 MIW2 USB 17-03-2002 Sun 1718 (TI)
6930 E10 MIW2//4165 USB 17-03-2002 Sun 1819 (TI)
6930 E10 MIW2 USB 19-03-2002 Tue 1618 (TI)

6930	E10	MIW2//8465 USB 23-03-2002 Sat 1618 (TI)
6930	E10	MIW2//4165 USB 24-03-2002 Sun 1819 (TI)
6930	E10	MIW2//8465 USB 31-03-2002 Sun 1618 (TI)
6930	E10	MIW2//8465 USB 31-03-2002 Sun 1718 (TI)
6930	E10	Israeli Intel. MIWTMX1504 AM 14-04-2002 1913 (AB)
6930	E10	VLB2 USB 21-04-2002 Sun 1545 (TI)
6930.0	E10	miwt0x10 AM 08-04-2002 Mon 2000 (ASC)
6933,5	M51	nr 35 A 25 22:46:30 2002 = CW 25-04-2002 2048 (RGA)
6986	E10	ART USB 26-02-2002 Tue 1503 (TI)
6986	E10	ART USB 04-03-2002 Mon 1503 (TI)
6986	E10	ART USB 05-03-2002 Tue 1503 (TI)
6986	E10	ART//5435 USB 06-03-2002 Wed 1503 (TI)
6986	E10	USB 10-03-2002 Sun 1509 (TI)
6986	E10	ART2//5435 USB 15-03-2002 Fri 1904 (TI)
6986	E10	USB 17-03-2002 Sun 1504 (TI)
7038.9	MX	Cluster beacon "S", Arkhangelsk CW 01-04-2002 1250
7039	MX	Cluster beacon "C", Moscow CW 01-04-2002 1255 (TJ)
7039	MXC	D//10872 CW 17-03-2002 Sun 1644 (TI)
7322	E10	FTJ USB 15-03-2002 Fri 1933 (TI)
7358	E10	FTJ2 USB 21-04-2002 Sun 1701 (TI)
7445	E10	SYN2 USB 31-03-2002 Sun 1649 (TI)
7445	E10	SYN2//4780 USB 15-04-2002 Mon 1646 (TI)
7445	E10	MIW2 USB 23-04-2002 Tue 1615 (TI)
7445.0	E10	SYN2 USB 08-04-2002 Mon 0046 (JSI)
7445.0	E10	SYN2 USB 13-04-2002 Sat 2249 (JSI)
7527	XPH	null AM 26-02-2002 Tue 2100 (TI)
7540	E10	USB 02-04-2002 Tue 1533 (TI)
7540	E10	JSR USB 06-04-2002 Sat 1531 (TI)
7540	E10	JSR2 USB 06-04-2002 Sat 1602 (TI)
7585	XPH	msg AM 26-02-2002 Tue 2130 (TI)
7610	XPH	msg AM 12-03-2002 Tue 2120 (TI)
7610	XPH	null AM 19-03-2002 Tue 2120 (TI)
7668	M16	8BY. DGSE CW 25-04-2002 2058 (RGA)
7734	M13	417 CW 02-04-2014 Sun 1900 (HFD)
7735	M13	id 417 CW 14-04-2002 1900 (AB)
7760	E10	USB 04-03-2002 Mon 1515 (TI)
7760	E10	ULX USB 05-03-2002 Tue 1503 (TI)
7760	E10	USB 06-03-2002 Wed 1504 (TI)
7760	E10	USB 10-03-2002 Sun 1510 (TI)
7760	E10	USB 17-03-2002 Sun 1505 (TI)
7760	E10	ULX//4880 USB 24-03-2002 Sun 1835 (TI)
7760	E10	USB 31-03-2002 Sun 1504 (TI)
7760	E10	ULX2 USB 06-04-2002 Sat 1532 (TI)
7760	E10	ULX USB 07-04-2002 Sun 1501 (TI)
7760	E10	ULX2 USB 21-04-2002 Sun 1530 (TI)
7787.0	M13	272 (R5) BT 2.. 21 BT (predicted for 7945m, but found on 7787m) CW 16-04-2002 Tue 2100 (MS)
7887.0	V02	Sounded a little fuzzy. AM 14-04-2002 Sun 0237 (JSI)

7912 E10 Israeli Intel. CI02 AM 14-04-2002 2045 (AB)
7918 E10 YHF USB 05-03-2002 Tue 1503 (TI)
7918 E10 //10648 USB 09-03-2002 Sat 1604 (TI)
7918 E10 //5820 USB 10-03-2002 Sun 1510 (TI)
7918 E10 YHF//10648 USB 11-03-2002 Mon 1604 (TI)
7918 E10 YHF//10648 USB 17-03-2002 Sun 1805 (TI)
7918 E10 //10648 USB 19-03-2002 Tue 1605 (TI)
7918 E10 USB 23-03-2002 Sat 1604 (TI)
7918 E10 //5820 10648 USB 24-03-2002 Sun 1806 (TI)
7918 E10 //10648 USB 31-03-2002 Sun 1604 (TI)
7918 E10 YHF USB 06-04-2002 Sat 1602 (TI)
7918 E10 YHF USB 13-04-2002 Sat 1501 (TI)
7918 E10 YHF USB 14-04-2002 Sun 1602 (TI)
7918 E10 USB 15-04-2002 Mon 1517 (TI)
7918 E10 YHF //10648 USB 15-04-2002 Mon 1602 (TI)
7918 E10 Israeli Intel. YHF2 AM 17-04-2002 1930 (PP)
7918 E10 YHF//10648 USB 23-04-2002 Tue 1602 (TI)
7918.0 E10 Barely readable. USB 14-04-2002 Sun 0238 (JSI)
7954 M22 4XZ. Israeli navy Haifa PSK 20-04-2002 1845 (LDO)
7995 M13 284 CW 02-04-2005 Fri 2000 (HFD)
8025 E10 MIW2 USB 26-02-2002 Tue 1520 (TI)
8025 E10 VLB2 USB 05-03-2002 Tue 1448 (TI)
8025 E10 VLB2 USB 12-03-2002 Tue 1447 (TI)
8025 E10 VLB2//5170 USB 17-03-2002 Sun 1619 (TI)
8025 E10 VLB2//6370 USB 31-03-2002 Sun 1550 (TI)
8025 E10 VLB2//5170 6370 USB 06-04-2002 Sat 1547 (TI)
8025 E10 VLB2//6370 USB 14-04-2002 Sun 1547 (TI)
8025 E10 Israeli Intel. VLB2MX1504 AM 14-04-2002 1916 (AB)
8025 E10 VLB2//6370 USB 15-04-2002 Mon 1547 (TI)
8025 E10 VLB2//5170 6370 USB 15-04-2002 Mon 1646 (TI)
8081 M42 FAPSI. Msgs on link 80061 to WQL RTTY 20-04-2002 0934
(LDO)
8085.0 E05 210, count 100, //9219 USB 22-04-2002 Mon 1900 (ASC)
8091.0 V02a AM 24-04-2002 Wed 0800 (BZ)
8091.0 V02a No carrier cut from previous message. False start @
0855 UTC. AM 24-04-2002 Wed 0900 (BZ)
8127 E10 CI02Z23 USB 10-03-2002 Sun 1512 (TI)
8127 E10 CI02//5339 USB 17-03-2002 Sun 1650 (TI)
8127 E10 CI02//6912 5339 USB 06-04-2002 Sat 1547 (TI)
8127 E10 CI02 USB 07-04-2002 Sun 1447 (TI)
8127 E10 CI02//5339 USB 14-04-2002 Sun 1547 (TI)
8127 E10 CI02//6912 5339 USB 15-04-2002 Mon 1647 (TI)
8127 M13 261 CW 02-04-2008 Mon 1900 (HFD)
8127 M13 261 CW 02-04-2008 Mon 2000 (HFD)
8132.0 V02 YL/SS "Atencion 132 32" at 0651, again (20 times) at
0700 and into 5FGs. "Final AM 21-04-2002 Sun 0700
8135.0 M08a ID 50503 55923 54943 CW 19-04-2002 Fri 2300 (MS)
8136 M08 CW 21-04-2002 Sun 1000 (TI)

8190	S17C	71036 AM 02-04-2007 Sun 1250 (HFD)
8190	S17C	98037 AM 02-04-2014 Sun 1250 (HFD)
8237		Unid. DTMF sound 14-04-2002 1949 (AB)
8300	V13	AM 31-03-2002 Sun 1429 (TI)
8300	V13	New Star AM 21-04-2002 Sun 1536 (TI)
8313	XSL	USB 21-04-2002 Sun 0936 (TI)
8464	E03	84334//10426 USB 26-02-2002 Tue 1505 (TI)
8464	E03	33482//10426 USB 05-03-2002 Tue 1506 (TI)
8464	E03	//10426 USB 17-03-2002 Sun 1613 (TI)
8464	E03	69264//10426 USB 31-03-2002 Sun 1604 (TI)
8465	E10	MIW2//6930 USB 23-03-2002 Sat 1619 (TI)
8465	E10	MIW2//6930 USB 31-03-2002 Sun 1619 (TI)
8465	E10	MIW2//6930 USB 31-03-2002 Sun 1719 (TI)
8494.9	MX	Cluster beacon "S", Arkhangel'sk CW 01-04-2002 1250 (TJ)
8495	MX	Cluster beacon "C", Moscow CW 01-04-2002 1255 (TJ)
8495	MXC	F CW 12-03-2002 Tue 1422 (TI)
8495	MXC	F CW 17-03-2002 Sun 1643 (TI)
8495	MXC	F CW 24-03-2002 Sun 1812 (TI)
8495	MXC	F//13528 CW 31-03-2002 Sun 1434 (TI)
8495,2	MX	Cluster Beacon "F" CW 06-04-2002 Sat 1614 (TI)
8495,2	MX	Cluster Beacon "F" CW 15-04-2002 Mon 1609 (TI)
8495,2	MX	Cluster Beacon "F" USB 21-04-2002 Sun 0946 (TI)
8588	XSL	Slot Machine 14-04-2002 2000 (AB)
8588	XSL	USB 21-04-2002 Sun 1149 (TI)
8641	E10	SYN2//4780 USB 17-03-2002 Sun 1650 (TI)
8641	E10	USB 21-04-2002 Sun 1547 (TI)
8703	XSL	Slot Machine 14-04-2002 2000 (AB)
8703.5	XSL	USB 21-04-2002 Sun 1157 (TI)
8805	E10	PCD//6498 USB 17-03-2002 Sun 1735 (TI)
8805	E10	USB 31-03-2002 Sun 1550 (TI)
8805	E10	USB 02-04-2002 Tue 1534 (TI)
8805	E10	PCD2 USB 21-04-2002 Sun 1701 (TI)
9052	XPH	msg AM 26-02-2002 Tue 2110 (TI)
9063.0	V02a	AM 24-04-2002 Wed 0700 (BZ)
9063.0	V02a	AM 24-04-2002 Wed 0900 (BZ)
9090.0	E05	In progress USB 08-04-2002 Mon 2233 (JSI)
9090.0	E05	rather weak USB 17-04-2002 Wed 2237 (JSI)
9130	E10	EZI//11565 USB 15-03-2002 Fri 1904 (TI)
9130	E10	//13533 USB 17-03-2002 Sun 1737 (TI)
9130	E10	//11565 13533 USB 24-03-2002 Sun 1837 (TI)
9130	E10	Israeli Intel. EZI AM 15-04-2002 2002 (AB)
9130.0	E10	Barely readable. USB 14-04-2002 Sun 0240 (JSI)
9140	XPH	msg AM 12-03-2002 Tue 2100 (TI)
9140	XPH	null AM 19-03-2002 Tue 2100 (TI)
9152.0	M08a	ID 45621 ----- (in progress) CW 06-04-2002 Sat
9153	M08	CW 11-03-2002 Mon 1026 (TI)
9219.0		In progress ; male counting groups of 5 english/euro

accent AM 10-04-2002 Wed 0200 (MS3)
 9219.0 E05 210, count 100, //8085 USB 22-04-2002 Mon 1900 (ASC)
 9238.0 M08a ID 14203 24823 82333 CW 08-04-2002 Mon 0700 (MS)
 9239 M08 CW 21-04-2002 Sun 1124 (TI)
 9300.0 E03 50176 key (10 time repeate for 5 minutes) 5 f/g 202
 USB 10-04-2002 Wed 0018 (DI)
 9300.0 E03 The trasmission was very Jam (QRM). During the
 trasmission The voice stopped sev USB 14-04-2002 Sun
 9300.0 E03 5FGx2 USB 16-04-2002 Tue 1800 (DI)
 9725 V13 AM 31-03-2002 Sun 1431 (TI)
 9725 V13 New Star AM 21-04-2002 Sun 1536 (TI)
 10124.8 M10 CW 22-04-2002 Mon 1930 (ANEUR)
 10126 M42 FAPSI. Possibly KRN RTTY 09-04-2002 2017 (RGA)
 10179 M42 FAPSI. 20FGs RTTY 13-04-2002 2014 (LDO)
 10220.0 M23 000 (R10) CW 07-04-2002 Sun 0330 (MS)
 10247 M42 FAPSI. Msg on link 00107 RTTY 03-04-2002 1007 (LDO)
 10249 M16 8BY. DGSE. vvv vvv vvv 8by 8by 8by 099 643 313 933 463
 237 CW 05-04-2002 1645 (MB4)
 10272,2 MX Cluster Beacon "F" CW 06-04-2002 Sat 1345 (TI)
 10272,2 MX Cluster Beacon "F" CW 06-04-2002 Sat 1614 (TI)
 10272,2 MX Cluster Beacon "F" CW 25-04-2002 Thu 1436 (TI)
 10426 LP id 81026 USB 14-04-2002 2000 (AB)
 10426 E03 84334//8464 USB 26-02-2002 Tue 1513 (TI)
 10426 E03 33482//8464 USB 05-03-2002 Tue 1512 (TI)
 10426 E03 //8464 USB 17-03-2002 Sun 1613 (TI)
 10426 E03 69264//8464 USB 31-03-2002 Sun 1607 (TI)
 10446 M08 CW 15-03-2002 Fri 0757 (TI)
 10446.0 V02a AM 24-04-2002 Wed 0300 (LAU)
 10623 M13 517 CW 02-04-2001 Mon 1900 (HFD)
 10623 M13 517 CW 02-04-2001 Mon 2000 (HFD)
 10623 M13 517 CW 02-04-2002 Tue 1900 (HFD)
 10623 M13 id 517 CW 16-04-2002 2000 (AB)
 10623 M13 517 CW 02-04-2015 Mon 2000 (HFD)
 10648 E10 //7918 USB 09-03-2002 Sat 1604 (TI)
 10648 E10 YHF//7918 USB 11-03-2002 Mon 1605 (TI)
 10648 E10 USB 17-03-2002 Sun 1620 (TI)
 10648 E10 YHF//7918 USB 17-03-2002 Sun 1806 (TI)
 10648 E10 //7918 USB 19-03-2002 Tue 1606 (TI)
 10648 E10 //5820 7918 USB 24-03-2002 Sun 1807 (TI)
 10648 E10 //7918 USB 31-03-2002 Sun 1605 (TI)
 10648 E10 USB 06-04-2002 Sat 1603 (TI)
 10648 E10 YHF //7918 USB 15-04-2002 Mon 1602 (TI)
 10648 E10 YHF//7918 USB 23-04-2002 Tue 1603 (TI)
 10820 E10 KPA2//12376 USB 15-03-2002 Fri 1920 (TI)
 10820 E10 KPA2//12376 USB 17-03-2002 Sun 1719 (TI)
 10820 E10 KPA2//12376 USB 17-03-2002 Sun 1820 (TI)
 10820 E10 KPA2//12376 USB 24-03-2002 Sun 1820 (TI)
 10820 E10 KPA2 USB 31-03-2002 Sun 1720 (TI)

10844	M42	FAPSI. Msg on lnk 60179 MFSK 01-04-2002 1753 (LD0)
10860	E06	in progress. Ends 00000 AM 13-04-2002 2024 (AB)
10871.9	MX	Cluster Beacon "S" CW 15-04-2002 Mon 1610 (TI)
10871.9	MX	Cluster beacon "S", Arkhangelsk CW 01-04-2002 1250 (TJ)
10872	MX	Cluster beacon "C", Moscow CW 01-04-2002 1255 (TJ)
10872	MX	Cluster Beacon "M" CW 15-04-2002 Mon 1610 (TI)
10872	MXC	M//5154 CW 12-03-2002 Tue 1422 (TI)
10872	MXC	D CW 15-03-2002 Fri 1912 (TI)
10872	MXC	D//7039 CW 17-03-2002 Sun 1643 (TI)
10872	MXC	D CW 24-03-2002 Sun 1813 (TI)
10872	MXC	D CW 31-03-2002 Sun 1434 (TI)
10872	MXC	S//13528 CW 31-03-2002 Sun 1434 (TI)
10970	E10	KPA2//12376 USB 15-04-2002 Mon 1617 (TI)
10970	E10	KPA2 USB 16-04-2002 Tue 2015 (TI)
10970	E10	Israeli Intel. KPA2 AM 17-04-2002 1915 (PP)
10970	E10	KPA2//12376 USB 23-04-2002 Tue 1617 (TI)
10970	E10	KPA2 USB 23-04-2002 Tue 2019 (TI)
10970	XP	0-msg AM 02-04-2004 Thu 2020 (HFD)
10970	XPH	msg AM 16-04-2002 Tue 2020 (TI)
10970	XPH	null AM 23-04-2002 Tue 2020 (TI)
11072	E05	//13465 USB 17-03-2002 Sun 1811 (TI)
11072.0	E05	287 count 189 //13465 USB 04-04-2002 Thu 1800 (ASC)
11416	M10	844 844 86 86 31 31 = = followed by 31 repeated 5F groups ending = = 86 86 31 31 TTT CW 08-04-2002 1731
11430	V13	AM 31-03-2002 Sun 1431 (TI)
11430	V13	New Star AM 21-04-2002 Sun 1537 (TI)
11545	E03	//13375 USB 15-03-2002 Fri 1911 (TI)
11545	E03	36572//13375 USB 17-03-2002 Sun 1708 (TI)
11545	E03	//13375 USB 31-03-2002 Sun 1512 (TI)
11545	E03	69264//8464 USB 31-03-2002 Sun 1607 (TI)
11545	E03	36572//13375 USB 31-03-2002 Sun 1708 (TI)
11545	E03	39054//13375 USB 06-04-2002 Sat 1506 (TI)
11545	E03	50176//13375 USB 07-04-2002 Sun 1505 (TI)
11545	E03	//13375 USB 21-04-2002 Sun 1534 (TI)
11545	E03	09954//13375 USB 23-04-2002 Tue 1605 (TI)
11565	E10	EZI1//13533 USB 26-02-2002 Tue 2101 (TI)
11565	E10	KPA2 USB 28-02-2002 Thu 1613 (TI)
11565	E10	EZI1 USB 28-02-2002 Thu 2101 (TI)
11565	E10	EZI USB 04-03-2002 Mon 2033 (TI)
11565	E10	EZI USB 04-03-2002 Mon 2101 (TI)
11565	E10	USB 05-03-2002 Tue 1434 (TI)
11565	E10	EZI//13533 USB 06-03-2002 Wed 1431 (TI)
11565	E10	EZI//13533 USB 12-03-2002 Tue 1434 (TI)
11565	E10	//13533 USB 14-03-2002 Thu 1436 (TI)
11565	E10	EZI//9130 USB 15-03-2002 Fri 1906 (TI)
11565	E10	//13533 USB 15-03-2002 Fri 1935 (TI)
11565	E10	//11565 USB 17-03-2002 Sun 1636 (TI)

11565	E10	//13533 USB 17-03-2002 Sun 1807 (TI)
11565	E10	JSR USB 18-03-2002 Mon 1459 (TI)
11565	E10	JSR USB 18-03-2002 Mon 1501 (TI)
11565	E10	EZI2//13533 USB 19-03-2002 Tue 1601 (TI)
11565	E10	//13533 USB 19-03-2002 Tue 1635 (TI)
11565	E10	EZI2 USB 23-03-2002 Sat 1601 (TI)
11565	E10	EZI USB 23-03-2002 Sat 1626 (TI)
11565	E10	EZI//13533 USB 23-03-2002 Sat 1631 (TI)
11565	E10	//13533 USB 24-03-2002 Sun 1808 (TI)
11565	E10	//9130 13533 USB 24-03-2002 Sun 1837 (TI)
11565	E10	USB 31-03-2002 Sun 1440 (TI)
11565	E10	EZI//13533 USB 31-03-2002 Sun 1630 (TI)
11565	E10	EZI//13533 USB 31-03-2002 Sun 1700 (TI)
11565	E10	EZI//13533 USB 07-04-2002 Sun 1432 (TI)
11565	E10	EZI USB 11-04-2002 Thu 2201 (TI)
11565	E10	EZI2 USB 14-04-2002 Sun 1602 (TI)
11565	E10	EZI2 USB 15-04-2002 Mon 1603 (TI)
11565	E10	EZI USB 15-04-2002 Mon 1627 (TI)
11565	E10	EZI//13533 USB 15-04-2002 Mon 1630 (TI)
11565	E10	Israeli Intel. EZI AM 15-04-2002 1930 (AB)
11565	E10	Israeli Intel. EZI AM 15-04-2002 2100 (AB)
11565	E10	EZI//13533 USB 21-04-2002 Sun 1631 (TI)
11565	E10	EZI//13533 USB 21-04-2002 Sun 1702 (TI)
11565	E10	EZI USB 21-04-2002 Sun 1800 (TI)
11565	E10	USB 22-04-2002 Mon 1446 (TI)
11565	E10	EZI USB 23-04-2002 Tue 1631 (TI)
11600.0	E10	Call Sign EZI USB 16-04-2002 Tue 1430 (DI)
12093.0	M08a	ID ----- (in progress) CW 06-04-2002 Sat
12179.0	V02a	SS YL V2A just finishing actual freq was 12179.42Khz
		S7 no fades no hum AM 24-04-2002 Wed 0002 (Vambo)
12190.0	E06	in progress AM 21-04-2002 Sun 1345 (ASC)
12198	M42	FAPSI. 20FGs RTTY 10-04-2002 2005 (LDO)
12210.0	E06	in progress AM 13-04-2002 Sat 1420 (ASC)
12210.0	E06	in progress AM 14-04-2002 Sun 1410 (ASC)
12217	M13	714 CW 02-04-2012 Fri 2000 (HFD)
12220	E07	920/1-6852/36= 95808 AM 02-04-2008 Mon 2020 (HFD)
12376	E10	KPA2//10820 USB 15-03-2002 Fri 1921 (TI)
12376	E10	KPA2 USB 17-03-2002 Sun 1620 (TI)
12376	E10	KPA2//10820 USB 17-03-2002 Sun 1720 (TI)
12376	E10	KPA2//10820 USB 17-03-2002 Sun 1821 (TI)
12376	E10	KPA2 USB 19-03-2002 Tue 1619 (TI)
12376	E10	KPA2 USB 23-03-2002 Sat 1620 (TI)
12376	E10	KPA2//10820 USB 24-03-2002 Sun 1820 (TI)
12376	E10	KPA2 USB 31-03-2002 Sun 1620 (TI)
12376	E10	KPA2 USB 06-04-2002 Sat 1618 (TI)
12376	E10	KPA2//10970 USB 15-04-2002 Mon 1618 (TI)
12376	E10	KPA2//10970 USB 23-04-2002 Tue 1617 (TI)
12397	M13	253 CW 02-04-2005 Fri 2000 (HFD)

12397.0	M13	253 (R5) BT (hr QRM blocks) CW 19-04-2002 Fri 2000
12444.0	M13	261 (R5) (blocked by heavy QRM) CW 07-04-2002 Sun 1900 (MS)
12444.0	M13	261 (R5) (blocked by heavy QRM) CW 07-04-2002 Sun 2000 (MS)
13371	E03	Lincolnshire Poacher ip USB 19-04-2002 1927 (RGA)
13375	E03	//11545 USB 15-03-2002 Fri 1909 (TI)
13375	E03	36572//11545 USB 17-03-2002 Sun 1709 (TI)
13375	E03	//11545 USB 31-03-2002 Sun 1515 (TI)
13375	E03	36572//11545 USB 31-03-2002 Sun 1711 (TI)
13375	E03	39054//11545 USB 06-04-2002 Sat 1508 (TI)
13375	E03	USB 06-04-2002 Sat 1608 (TI)
13375	E03	50176//11545 USB 07-04-2002 Sun 1508 (TI)
13375	E03	32994 USB 15-04-2002 Mon 1608 (TI)
13375	E03	Lincolnshire Poacher ip USB 19-04-2002 1731 (PP)
13375	E03	//11545 USB 21-04-2002 Sun 1538 (TI)
13375	E03	09954//11545 USB 23-04-2002 Tue 1610 (TI)
13375.0	E03	This was very strange. At some point in the message it appeared like someone (a USB 05-04-2002 Fri 1940
13465	E05	//11072 USB 17-03-2002 Sun 1812 (TI)
13465.0	E05	287 count 189 //11072 USB 04-04-2002 Thu 1800 (ASC)
13470	M42	FAPSI. Msgs on link 80061 from VNB to WQL RTTY 20-04-2002 Sat 1432 (AB)
13505	M42	FAPSI in progress RTTY 20-04-2002 Sat 2455 (AB)
13527.9	MX	Cluster beacon "S", Arkhangelsk CW 01-04-2002 1250
13528	MX	Cluster beacon "C", Moscow CW 01-04-2002 1255 (TJ)
13528	MXC	F//8495 CW 31-03-2002 Sun 1436 (TI)
13528	MXC	S//10872 CW 31-03-2002 Sun 1436 (TI)
13533	E10	EZI1//11565 USB 26-02-2002 Tue 2101 (TI)
13533	E10	EZI//11565 USB 06-03-2002 Wed 1434 (TI)
13533	E10	EZI//11565 USB 12-03-2002 Tue 1435 (TI)
13533	E10	//11565 USB 14-03-2002 Thu 1436 (TI)
13533	E10	//11565 USB 15-03-2002 Fri 1937 (TI)
13533	E10	//13533 USB 17-03-2002 Sun 1637 (TI)
13533	E10	//9130 USB 17-03-2002 Sun 1738 (TI)
13533	E10	//11565 USB 17-03-2002 Sun 1807 (TI)
13533	E10	EZI2 USB 18-03-2002 Mon 1500 (TI)
13533	E10	EZI2//11565 USB 19-03-2002 Tue 1601 (TI)
13533	E10	//11565 USB 19-03-2002 Tue 1636 (TI)
13533	E10	EZI//11565 USB 23-03-2002 Sat 1635 (TI)
13533	E10	//11565 USB 24-03-2002 Sun 1808 (TI)
13533	E10	//9130 11565 USB 24-03-2002 Sun 1837 (TI)
13533	E10	EZI//11565 USB 31-03-2002 Sun 1630 (TI)
13533	E10	EZI//11565 USB 31-03-2002 Sun 1700 (TI)
13533	E10	EZI2 USB 06-04-2002 Sat 1503 (TI)
13533	E10	EZI//11565 USB 07-04-2002 Sun 1433 (TI)
13533	E10	EZI//11565 USB 15-04-2002 Mon 1632 (TI)
13533	E10	Israeli Intel. EZI AM 18-04-2002 1730 (PP)

13533	E10	EZI//11565 USB 21-04-2002 Sun 1633 (TI)
13533	E10	EZI//11565 USB 21-04-2002 Sun 1703 (TI)
13533	E10	EZI USB 23-04-2002 Tue 1632 (TI)
13550	XPH	msg AM 05-03-2002 Tue 0700 (TI)
13550	XPH	msg USB 12-03-2002 Tue 0700 (TI)
13550	XPH	msg AM 19-03-2002 Tue 0700 (TI)
13750	V13	AM 31-03-2002 Sun 1431 (TI)
13920	E07	920/0 AM 02-04-2001 Mon 2000 (HFD)
13920	E07	920/1-6852/36= 95808 AM 02-04-2008 Mon 2000 (HFD)
14000	E15	Nancy Adam Susan USB 16-04-2002 Tue 1700 (AY)
14500.0	E03	USB 04-04-2002 Thu 0019 (RI)
14500.0	E03	90759 key 5FGx2 USB 11-04-2002 Thu 0018 (DI)
14500.0	E03	Count 200 (5fgx2) USB 11-04-2002 Thu 1800
14500.0	E03	5fgx2 count 200 USB 17-04-2002 Wed 1400 (DI)
14530	E10	Israeli Intel. in progress AM 14-04-2002 2039 (AB)
14530	E10	YHF USB 18-04-2002 Thu 2030 (TI)
14530.0	E10	SINFO 24242 very jam USB 17-04-2002 Wed 2030 (DI)
14588	M42	FAPSI. 20FGs RTTY 10-04-2002 1320 (LD0)
14638	M42	FAPSI. Msg on link 30011 MFSK 01-04-2002 1055 (LD0)
14739	E05	//16198 USB 26-02-2002 Tue 1514 (TI)
14739	E05	//16198 USB 05-03-2002 Tue 1513 (TI)
14739	E05	//16198 USB 31-03-2002 Sun 1513 (TI)
14739	E05	528//16198 USB 07-04-2002 Sun 1506 (TI)
14739	E05	//16198 USB 21-04-2002 Sun 1535 (TI)
14739.0	E05	528, count 215, //16198 USB 07-04-2002 Sun 1500 (ASC)
14739.0	E05	528, count 215, //16198 USB 12-04-2002 Fri 1500 (ASC)
14850.0	E06	in progress AM 27-04-2002 Sat 1425 (ASC)
14850.0	E06	in progress AM 28-04-2002 Sun 1405 (ASC)
14866	E07	AM 21-04-2002 Sun 1704 (TI)
14950	XPH	msg AM 05-03-2002 Tue 0720 (TI)
14950	XPH	msg USB 12-03-2002 Tue 0720 (TI)
14950	XPH	msg AM 19-03-2002 Tue 0720 (TI)
14950	XPH	msg AM 22-03-2002 Fri 0720 (TI)
15272	XPH	msg AM 26-02-2002 Tue 0700 (TI)
15805	E10	Israeli Intel. KPA2 AM 13-04-2002 1520 (JB3)
16130	M42	FAPSI. 20FGs RTTY 14-04-2002 1320 (LD0)
16198	E05	//14739 USB 26-02-2002 Tue 1514 (TI)
16198	E05	//14739 USB 05-03-2002 Tue 1513 (TI)
16198	E05	//14739 USB 31-03-2002 Sun 1513 (TI)
16198	E05	USB 06-04-2002 Sat 1610 (TI)
16198	E05	528//14739 USB 07-04-2002 Sun 1506 (TI)
16198	E05	//14739 USB 21-04-2002 Sun 1535 (TI)
16198.0	E05	528, count 215, //14739 USB 07-04-2002 Sun 1500 (ASC)
16198.0	E05	528, count 215, //14739 USB 12-04-2002 Fri 1500 (ASC)
16250	XPH	msg AM 05-03-2002 Tue 0740 (TI)
16250	XPH	msg AM 08-03-2002 Fri 0740 (TI)
16250	XPH	msg USB 12-03-2002 Tue 0740 (TI)
16250	XPH	msg AM 19-03-2002 Tue 0740 (TI)

16250	XPH	msg AM 22-03-2002 Fri 0740 (TI)
16314	E03	Lincolnshire Poacher USB 23-04-2002 1438 (RGA)
16332	MX	Cluster beacon "C", Moscow CW 01-04-2002 1255 (TJ)
16472	XPH	msg AM 26-02-2002 Tue 0720 (TI)
16932	MX	Channel marker "P", Kaliningrad. Faster than the others CW 23-04-2002 1437 (RGA)
16940.0	M23	310 (R10) //freq on 17460m CW 07-04-2002 Sun 1430 (MS)
17410	E10	USB 31-03-2002 Sun 1535 (TI)
17410	E10	//19715 USB 06-04-2002 Sat 1534 (TI)
17460.0	M23	310 (R10) //freq on 16940m CW 07-04-2002 Sun 1430 (MS)
17472	XPH	msg AM 26-02-2002 Tue 0740 (TI)
18178	E10	KPA2 USB 15-04-2002 Mon 1519 (TI)
18210	M42	FAPSI. 20FGs RTTY 14-04-2002 1310 (LD0)
18864	E04	77435//23461 USB 14-03-2002 Thu 1107 (TI)
18864	E04	//21866 USB 21-03-2002 Thu 0016 (TI)
18864	E04	61640//24644 USB 31-03-2002 Sun 2203 (TI)
18864	E04	49498//21866 USB 31-03-2002 Sun 2303 (TI)
18864	E04	07820//21866 USB 01-04-2002 Mon 0000 (TI)
18864	E04	49498//24644 USB 11-04-2002 Thu 2203 (TI)
18864	E04	85318//21866 USB 11-04-2002 Thu 2303 (TI)
18864	E04	09582//21866 USB 23-04-2002 Tue 1301 (TI)
18864	E04	12185//24644 USB 24-04-2002 Wed 2201 (TI)
19700.0	E10	USB 16-04-2002 Tue 1200 (DI)
19715	E10	//17410 USB 06-04-2002 Sat 1535 (TI)
19715	E10	EZI2 USB 21-04-2002 Sun 1533 (TI)
19884	E04	49209//21866 USB 21-03-2002 Thu 0100 (TI)
20474	E04	19424//23461 USB 14-03-2002 Thu 1003 (TI)
20740	E10	KPA2 USB 06-03-2002 Wed 1435 (TI)
20740	E10	KPA2 USB 12-03-2002 Tue 1419 (TI)
20740	E10	KPA2 USB 31-03-2002 Sun 1519 (TI)
20740	E10	KPA2 USB 06-04-2002 Sat 1519 (TI)
21866	E04	//18864 USB 21-03-2002 Thu 0016 (TI)
21866	E04	49209//19884 USB 21-03-2002 Thu 0100 (TI)
21866	E04	49498//18864 USB 31-03-2002 Sun 2303 (TI)
21866	E04	07820//18864 USB 01-04-2002 Mon 0000 (TI)
21866	E04	85318//18864 USB 11-04-2002 Thu 2303 (TI)
21866	E04	09582//18864 USB 23-04-2002 Tue 1301 (TI)
22956	M42	FAPSI RTTY 19-04-2002 1646 (RGA)
23461	E04	19424//20474 USB 14-03-2002 Thu 1003 (TI)
23461	E04	77435//18864 USB 14-03-2002 Thu 1107 (TI)
24644	E04	61640//18864 USB 31-03-2002 Sun 2203 (TI)
24644	E04	49498//18864 USB 11-04-2002 Thu 2203 (TI)
24644	E04	12185//18864 USB 24-04-2002 Wed 2201 (TI)

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JSI	John Singleton, VA, USA
LAU	Lauren, CA, USA
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MS3	MS, NH, USA
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RGA	Jim, UK
RH4	R. Hess, DC, USA
RI	Rino, Italy
SE	Selco
TJ	Trond Jacobsen, Norway
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